



TGN SPO

Joint Interface Control Officer (JICO) Support System (JSS)



ESC/NI3N



Program History and Major Milestones



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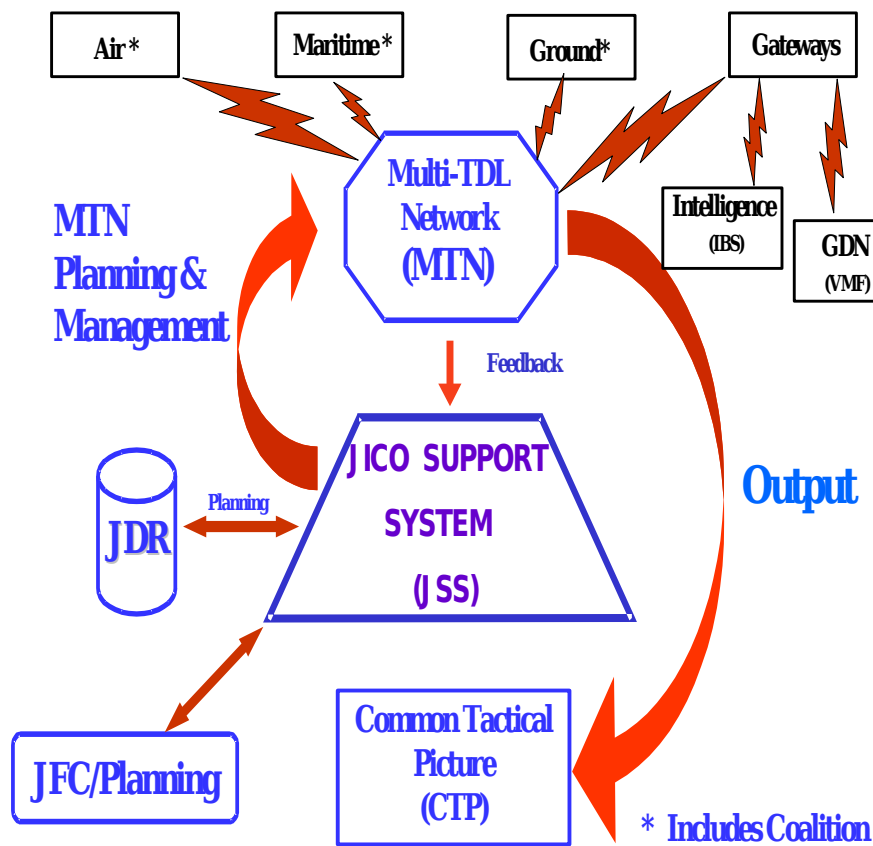
- JROC designated “Joint Program”, with the AF as program lead
- JSS ORD approved July 02 (JROCM 116-02)
 - USAF designated EA by JROCM 92-01
- Program Start FY04 with our first “gate” MS B in April/May 2004
- JSS CONOPS, completed JFCOM staffing, headed to Joint Staff for comments/review
- MOA for support during development signed by AF, Navy, and Army (verbal concurrence with Marines being routed for signature)
- Early initiatives and heritage
 - Joint Interface Control Cell (Deployable) equipment procured for JID OSB in 2001
 - Interim JSS acquired on a competitively awarded, NDI contract from AF to Northrop Grumman
 - 22+ systems fielded with numbered AF and 4 Navy carriers
 - Link 16 network monitoring with limited planning capability



JSS Program Overview

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JSS OV-1



Description

- Supports Joint Interface Control Officer (JICO) and JICO Cell
- Automated Tool Set for Planning, Management, and Execution of the Multi-TADIL Network (MTN)
- Automates Track Data Management, TDL Coordination and Management, Voice and Data Communications Management, Computer-Based Training (CBT), and Scenario Development.

Key Technologies

- JICO Data Repository (Local and Remote)
 - Mapping and geodesy
 - Sensor prediction information
 - Natural environment information
 - Satellite availability
 - Platform capabilities and limitations
- Link 16
 - Dynamic Network Management
 - TSDF monitoring



Program Overview

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- **Joint Program**
 - ACAT-III
 - Air Force is designated the lead agent
 - Hardware/software development, production, and sustainment
 - Platforms have integration responsibilities
 - OSD involvement through XORI
 - Not a special interest, but informational briefing requested (Next brief upon contract award)
- **Program funding is based on service budgets**
 - FY04-05
 - Navy and Air Force funding
 - FY06 and out Air Force, Navy, Army and Marine become funded participants
- **The government program office located at ESC**
 - PEO
 - Source Selection Authority
 - Program Manager



Program Snapshot CCC/FEC



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Common Core Capability (CCC)



"n" JSS Work Stations



JSS Server
(includes local JDR)

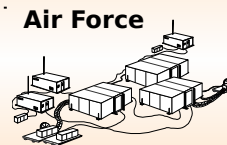
Delivery to Integration Platform

**Platform
Integration**

Government
& Contractor
platform
integration



Navy



Air Force



Army



Marines

**Full Expeditionary
Capability (FEC)
(CCC + Comm. suite)**



Crypto



AN/PRC-117F



CCC



ARC-210



MIDS



Link 11



Product Description

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•The Operational Requirements Document (ORD) describes the JSS as “2 adaptive capability packages”

- Common Core Capability (CCC)
 - A baseline of common modular hardware, software, and computer operating system to interface within OPFACS to execute the Joint ICO, Regional ICO, and Sector ICO roles
 - Toolset for the JICO's to plan/manage the MTN/MTA, and data flowing through (i.e., Joint, allied and/or coalition entities)
 - Support JICO communication operations (data/voice)
 - Interfaces with existing communication systems
- Full Expeditionary Capability (FEC)
 - CCC system that is self-contained, ruggedized, configurable and deployable
 - Communication suite with interfaces to CCC
 - Each service will cost share for the FEC units for JFCOM
- **Local JICO Data Repository (JDR)**
 - Locally maintain all JSS information on site
- **Remote JICO JDR**
 - To remotely maintain the superset of data required by JSS sites



Service Asset Distribution



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CCC Units	AF	Navy	Army	Marines	Total
	26	22	11	15	74
FEC Units				JFCOM	Total
				4	4



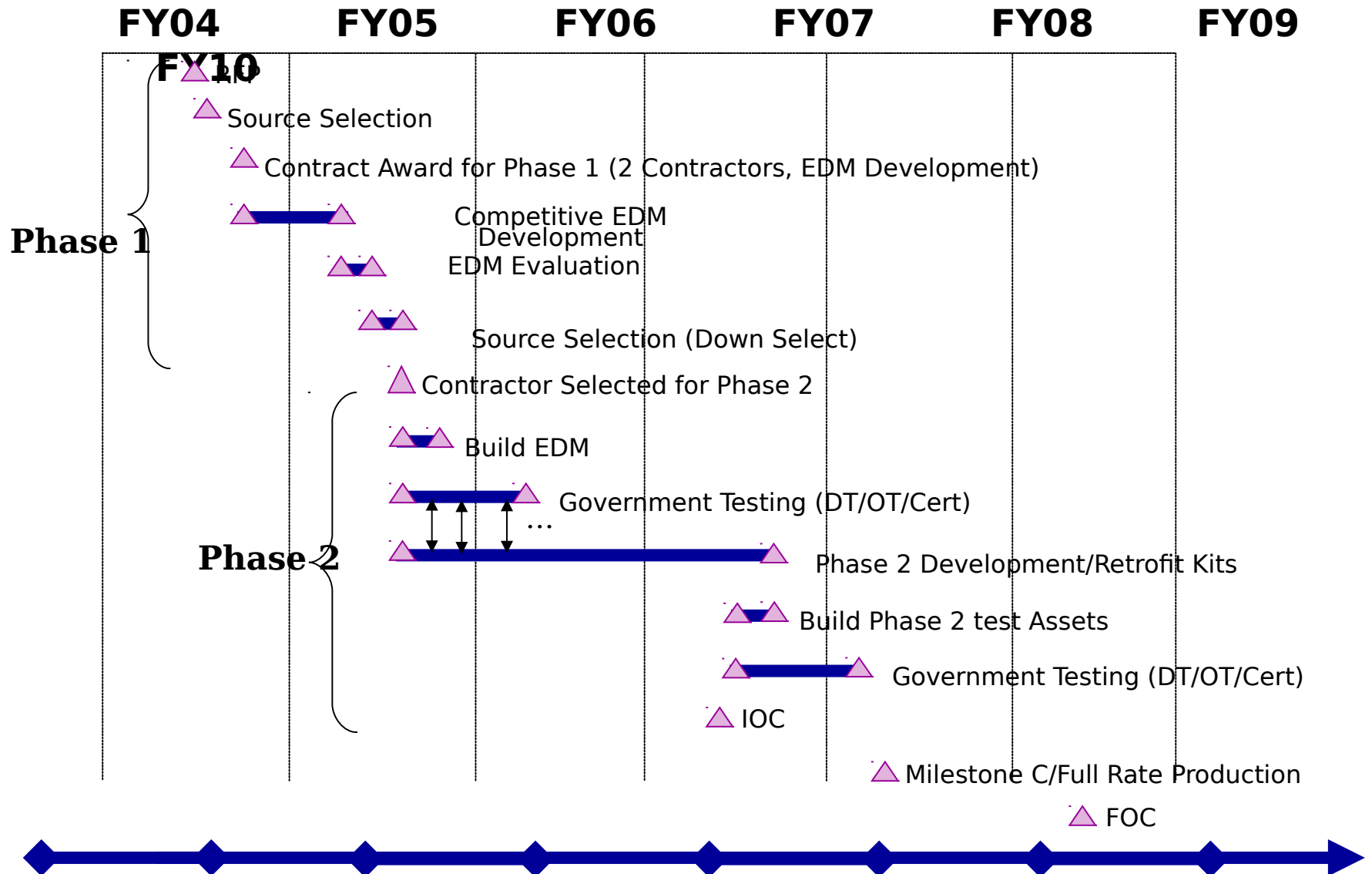
Program Functional Organization



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JSS Planning Schedule





Acquisition Program

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MS
B

MS C

System Development & Demonstration

Production

Phase 1

Phase 1: Compete 2 contractors, evaluate the approaches to system development of EDM (Engineering Development Models) with minimal implementation. Integration study on an AF AOC and Navy carrier and cruiser (interfaces to MIDS/LVT2 and Navy Ship C

Phase 2

Phase 2: Develop system with full implementation of requirements, and retrofit kits

Deliver 17 Phase 1 EDM for OPS/test evaluation to reduce integration risk

Evaluation & Integration

(Spiral)

Evaluation & Integration

DT/OT/
Certificati
on



Deliverables & Services



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Phase 1 FY04-FY05

Full and Open Competition Down Select

- Develop EDM units
- 2 CCC & critical spares
- Contractor: Demo, Training
- Gov't: Evaluation
- Navy & Air Force Funding

Phase 2 FY05-FY08

Development and Test

- Develop Phase 2 JSS
- Deliver 17 EDM units, Retrofit kits, including Local & Remote JICO Data Repository
- Contractor: DT, Training
- Gov't: DT/OT/Certification
- Army, Navy, Air Force, Marine Corps Funding
- FEC development/integration

Phase 2 FY08-FY09

Production and Sustainment

- Produce 78+ CCCs
- Sustain FEC/CCC

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Source Selection Considerations



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JSS Combined DT/OT Testing



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US Navy leads DT with other service participation using a Combined Test Force (Air Force Responsible Test Organization concept)

- Conducted in a distributed, representative OPFAC laboratory environment at Service TDL integration facilities
 - Space and Naval Warfare System Center, San Diego (SSC)
- Conducted concurrent with a live representative OPFAC event or exercise
 - Use of beta test site(s) for demonstration, test and evaluation
 - Facilitate the decision for transition to IOT&E



JSS Combined DT/OT Testing



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US Air Force lead for OT with other service participation

Approach for phase 2 operational testing

- Live concurrent events and exercise planned, scheduled and coordinated to run fully integrated in the host operational facility (beta site or other TBD)
- Performed in multi-platform, multi-link operations designed to characterize the multi-TADIL network management and evaluate system performance in a live TDL environment



Training Concept



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- **Initial Training**

- Contractor will provide *new equipment training* at DT/OT test sites and various operational sites at fielding

- **Formal Training**

- Contractor developed training system and materials will support the Joint Multi-TADIL School (JMTS) and service unique training
- However, formal JMTS and service operator courses will not be developed under JSS development contract

- **Sustainment Training**

- Embedded simulation and computer based training capability in JSS will facilitate sustained recurring user training at fielded sites
- Contractor delivered training plan to include upgraded simulation capability
 - SPO to establish JSS training planning team and system training plan



JSS Integrated and Classroom Training



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- JSS requires embedded training capability for on-line and off-line training
- JSS classroom training for service training units and FORSCOM JMTS will be developed separately
 - Each service will have to define their own operator and watch stander training requirements (e.g., Air Force AOC/JICC operator, Navy track coordinator and combat system operators)
 - JMTS training for JICOs will be required to develop and modify classroom training to incorporate JSS capabilities into the syllabus



JSS Integrated and Classroom Training



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- JSS PMO desires close interaction with the JID JMTS on the development of classroom training for JSS
 - JIC JMTS take the lead on developing requirements and specifications for JSS classroom training to meet these needs
 - ESC to provide funding and program integration for overall JSS training capability
 - ESC provide resources and assist with developing the technical requirements for JID contracting of work into the existing courseware and new development training programs
 - JID would deliver JSS classroom training to meet their need dates and subsequently distribute classroom training materials to the service's training units and integrating program offices to meet service unique



Summary



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- Recommended combined training effort
 - ESC/FORSCOM
- Source Selection involvement



Acronyms



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AMSD	Army Modeling and Simulation Department
AS	Acquisition Strategy
ASP	Acquisition Strategy Plan
CBT	Computer Based Training
CCC	Common Core Capability
CDRL	Contract Data Requirement List
CLIP	Common Link Integrated Processor
CONOPS	Concert of Operations
COTS	Commercial Off The Shelf
C/P	Cost/Price
CPAF	Cost Plus Award Fee
DT	Developmental Testing
EA	Expert Advisor
EDM	Engineering Development Model



Acronyms

(Cont)



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FEC	Full Expeditionary Capability
FFP	Firm Fixed Price
FRP	Full Rate Production
FY	Fiscal Year
GFE	Government Furnished Equipment
GFI	Government Furnished Information
ICO	Interface Control Officer
ICS	Interoperability Certification Support
IOT&E	Initial Operational Test and Evaluation
JDR	Joint Data Repository
JICO	Joint Interface Control Officer
JMTS	Joint Multi-TADIL School
JROCM	Joint Requirements Oversight Council Memorandum
JSLIRS	Joint Single-Link Interface Requirements Specification



Acronyms

(Cont)



TGN SPO

JSS	JICO Support System
JTF	Joint Task Force
JTRS	Joint Tactical Radio System
MC	Mission Capability
MIL STD	Military Standard
MTN/MTA	Multi-TADIL Network/Multi-TADIL Architecture
NDI	Non-Development Item
NET	New Equipment Training
OPFAC	Operational Facility
ORD	Operational Requirements Document
OT	Operational Testing
PEO	Program Executive Officer
POM	Program Objective Memorandum
PP	Past Performance
PR	Proposal Risk



Acronyms

(Cont)



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PRAG	Performance Risk Assessment Group
RFP	Request For Proposal
RICO	Regional Interface Control Officer
SAMP	Single Acquisition Management Plan
SDD	Systems Development Demonstration
SORAP	Source Of Repair Assignment Process
SPO	System Program Office
SSA	Source Selection Authority
SSEA	Source Selection Expert Advisor
SSET	Source Selection Evaluation Team
SSP	Source Selection Plan
TADIL	Tactical Digital Information Link
TDL	Tactical Data Links
T&M	Time and Material